

WHAT IS CLAIMED IS:

1. A canning structur which comprises a ceramic honeycomb structure; said honeycomb structure having been not loaded with a catalyst, a metal case and a holding material, and said ceramic honeycomb structure being canned in said metal case and being held by said holding material thereto;

wherein an impermeable layer is provided on at least one edge plane in longitudinal direction of said holding material.

2. A canning structure according to Claim 1, wherein the length of said impermeable layer is 10 mm or less.

3. A canning structure according to Claim 1 or Claim 2, wherein plane pressure properties of said impermeable layer are approximately equal to, or less than those of said holding material.

4. A canning structure according to Claim 1, wherein at least one edge plane of said holding material having said impermeable layer is formed on approximately same plane as edge plane of said ceramic honeycomb structure.

5. A canning structure according to Claim 1, wherein said impermeable layer comprises at least one edge plane in the longitudinal direction of said holding material to which an impermeable material has adhered.

6. A canning structure according to Claim 1, wherein the

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form of said impermeable material is that of a thin film.

7. A canning structure according to Claim 1, wherein the form of said impermeable material is that of a rope, with a circular, quadrangular, or arbitrary cross-section.

8. A canning structure according to Claim 1, wherein said impermeable material is formed of resin such as plastic, rubber, paper, cloth, or like fiber.

9. A canning structure according to Claim 1, wherein said impermeable layer comprises at least one edge plane in the longitudinal direction of said holding material impregnated with impermeable matter such as oils and fats.

10. A canning structure according to Claim 1, wherein the partition thickness of said ceramic honeycomb structure is 0.10 mm or thinner.

11. A canning structure according to Claim 1, wherein said holding material is a non-intumescent ceramic fiber mat.

12. A method for manufacturing a canning structure which comprises a ceramic honeycomb structure; said honeycomb structure having been not loaded with a catalyst, a metal case and a holding material, and said ceramic honeycomb structure being canned in said metal case and being held by said holding material thereto; which comprises forming an impermeable layer by adhering an impermeable material on at least one edge plane of

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the holding material in the longitudinal direction, thereby at least one edge plane of said impermeable layer of the holding material and edge plane of the ceramic honeycomb structure are provided on approximately same plane.

13. A method for manufacturing a canning structure comprises a ceramic honeycomb structure; said honeycomb structure having been not loaded with a catalyst, a metal case and a holding material, and said ceramic honeycomb structure being canned in said metal case and being held by said holding material thereto;

which comprises impregnating an impermeable matter so as to form an impermeable layer on at least one edge plane in the longitudinal direction of a holding material, thereby at least one edge plane of said impermeable layer of the holding material and edge plane of the ceramic honeycomb structure are provided on approximately same plane.

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